Natural Drainage Systems Landscape Maintenance Categories (LMC) and Characteristics Checklist Items for reporting in bold

Project Sites

- □ Carkeek Cascade at NW 110th
- Broadview Green Grid -Carkeek Cascades at NW107th
- □ Pinehurst Green Grid
- □ 19th Avenue NE
- □ 20th Avenue NE
- $\hfill\Box$ 23rd Avenue NE
- □ NE 117th Street
- □ NE 113th Street
- □ 25th Ave NE

- □ Broadview Green Grid -SEA Streets
- □ Phinney Ave N SEA Street
- □ Palatine Ave N SEA Street
- □ 1st Ave NW SEA Street
- □ 2nd Ave NW SEA Street
- □ SEA Streets #1
- □ Viewlands Cascade

		Maintenance Category A (Excellent)	Maintenance Category B (Good)	Maintenance Category C (Moderate)	Maintenance Category D (Low)
NDS Element					
Aesthetics	All				
(vegetation & trash)	ve	At least 90% of planted getation is healthy, dense, d attractive	□ At least 75% of planted vegetation is healthy with a generally good appearance	□ Between 40-75% of planted vegetation is healthy with a generally good appearance	□ Less than 40% of planted vegetation is healthy and has a generally good appearance
	ve on	Less than 10% of the getation are weeds, unless edge and provided erosion ntrol	□ Less than 25% of the vegetation are weeds, unless on edge and providing erosion control	□ Between 60-25% of the vegetation are weeds, unless on edge and providing erosion control	□ Greater than 60% of the vegetation are weeds
		Zero tolerance for noxious eeds	□ Goal of zero tolerance for noxious weeds	□ Control noxious weeds	□ Control noxious weeds
	- (Clean, distinct edges	 Loose edges: grass starting to encroach on swale or vice versa, plants starting to hang over street/sidewalk 		□ No edges; surrounding vegetation spills into swale or vice versa
		Mulch covers 100% of swale d is at least 4" deep	 Mulch covers at least 90% of swale and is at least 4" deep 	□ Mulch covers at least 60% of swale and is at least 4" deep	 Mulch covers less than 60% of swale
	□ 1	No bare spots	□ Less than 10% bare spots	□ Less than 40% bare spots	□ More than 40% bare spots
		No evidence of erosion abilized surfaces)	□ A few areas of potential erosion	□ Some areas of erosion	□ Substantial eroded areas
		Homeowner is fully maintaining here applicable	□ Homeowner is providing some maintenance (where applicable)	□ Homeowner is providing low level of maintenance (where applicable)	□ Homeowner is not maintaining swale (where applicable)
				Able to achieve Level B without complete retrofit	□ Unable to achieve higher service levels without complete retrofit
Consideration for Noxious	an	ero tolerance for Class A d Class B noxious weeds. oal of zero tolerance for	Zero tolerance for Class A noxious weeds. Goal of zero tolerance for Class C noxious	Zero tolerance for Class A noxious weeds. Class B and Class C noxious weeds are	Zero tolerance for Class A noxious weeds. Class B and Class C noxious weeds are
Weeds		ass C noxious weeds.	weeds.	controlled.	controlled.
			King County No	xious Weed List	<u> </u>

System Type						
Bioretention	SEA Streets (2 nd Ave NW from NW 117 th St to NW 120 th St)					
(vegetation &	SEA Streets (2 nd Ave NW from NW 117 th St to NW 120 th St)					
soils/substrate)	BGG SEA Streets (Phinney Ave N, Palatine Ave N, 1 st Ave NW, 2 nd Ave NW from NW 110 th St to NW 107 th St)					
	Pinehurst (19 th Ave NE from NE 115 th St to NE 117 th St, 20 th Ave NE and 23 rd Ave NE from NE 113 th St to NE 117 th St, NE 113 th St from 20 th Ave NE					
	and 23 rd Ave NE)					
		At least 90% of swale	□ At least 75% of swale bottom	□ Between 40-75% of swale	□ Less than 40% of swale	
	_		is covered with healthy,	bottom is covered with	bottom is covered with	
	h	ealthy, wetland vegetation	wetland vegetation	healthy, wetland vegetation	healthy, wetland vegetation	
	le	•	□ Bottom soil is well aerated, less than 20% compaction	□ Less than 40% compaction	□ More than 40% compaction	
		•	□ No erosion, channelization or scouring	□ Some erosion, channelization or scouring	□ Erosion, channelization or scouring	
		Less than 10% bare spots	□ Less than 25% bare spots	□ Less than 40% bare spots	□ Greater than 40% bare spots	
	or in	ches, unless otherwise noted	□ Acceptable level of sediment or debris accumulation − 2 inches, otherwise noted or accumulation prevents	□ Less than 40% bare spots	□ Significant build up of sediment or debris – greater than 3 inches, unless otherwise noted	
				□ Moderate level of sediment or debris accumulation − 3 inches, unless otherwise noted or accumulation prevents achievement of previous bullet		
Biofiltration (vegetation & soils/substrate)						
*this value is		□ At least 90% of swale	□ At least 80% of swale	□ Between 60-80% of swale	□ Less than 60% of swale	
equal to 3 x		bottom covered with healthy,	bottom covered with healthy,	<u> </u>	•	
design flow		uniformed fine-stemmed	uniformed fine-stemmed	uniformed fine-stemmed	uniformed fine-stemmed	
depth and will vary with each		vegetation at least XX* inches high	vegetation at least XX* inches high	vegetation at least XX* inches high	vegetation, of at least XX* inches high	
		□ No erosion, channelization or	□ No erosion, channelization or		□ Erosion, channelization or	
project		scouring	scouring	channelization or scouring	scouring	
		□ Less than 10% bare spots	□ Less than 20% bare spots	□ Less than 40% bare spots	□ Greater than 40% bare	
					spots	

	□ Acceptable level of sediment or debris accumulation – 2 inches, unless otherwise noted or accumulation prevents achievement of previous bullet	□ Acceptable level of sediment or debris accumulation − 2 inches, unless otherwise noted or accumulation prevents achievement of previous bullet	□ Acceptable level of sediment or debris accumulation – 3 inches, unless otherwise noted or accumulation prevents achievement of previous bullet	□ Acceptable level of sediment or debris accumulation – greater than 3 inches, unless otherwise noted
Dioretention with	Which ones?			
Bioretention with Biofiltration (vegetation & soils/substrate) *this value is equal to 3 x design flow depth and will vary with each project	□ At least 90% of swale bottom is covered with healthy, uniformed fine- stemmed wetland vegetation at least XX* inches high	□ At least 80% of swale bottom is covered with healthy, uniformed fine- stemmed wetland vegetation at least XX* inches high	□ Between 40-80% of swale bottom is covered with healthy, uniformed fine- stemmed wetland vegetation at least XX* inches high	□ Less than 40% of swale bottom is covered with healthy, uniformed fine- stemmed wetland vegetation at least XX* inches high
	□ Bottom soil is well aerated, less than 10% compaction	□ Bottom soil is well aerated, less than 20% compaction	□ Less than 40% compaction	□ More than 40% compaction
	□ No erosion, channelization or scouring	□ No erosion, channelization or scouring	□ Some erosion, channelization or scouring	□ Erosion, channelization or scouring
	□ Less than 10% bare spots	□ Less than 25% bare spots	□ Less than 40% bare spots	□ Greater than 40% bare spots
	□ Acceptable level of sediment or debris accumulation – 2 inches, unless otherwise noted or accumulation prevents achievement of previous bullet	□ Acceptable level of sediment or debris accumulation − 2 inches, otherwise noted or accumulation prevents achievement of previous bullet	□ Less than 40% bare spots	□ Significant build up of sediment or debris – greater than 3 inches, unless otherwise noted
			□ Moderate level of sediment or debris accumulation − 3 inches, unless otherwise noted or accumulation prevents achievement of previous bullet	

Conveyance (vegetation & soils/substrate)		□ At least 90% of swale bottom is covered with healthy vegetation	□ At least 75% of swale bottom is covered with healthy, wetland vegetation	□ Between 40-75% of swale bottom is covered with healthy, wetland vegetation	□ Less than 40% of swale bottom is covered with healthy, wetland vegetation
		□ No erosion, channelization or	□ No erosion, channelization or	□ Some erosion,	□ Erosion, channelization or
		scouring	scouring	channelization or scouring	scouring
		□ Less than 10% bare spots	□ Less than 25% bare spots	□ Less than 40% bare spots	□ Greater than 40% bare spots
		□ Acceptable level of sediment or debris accumulation − 2 inches, unless otherwise noted or accumulation prevents achievement of previous bullet	□ Acceptable level of sediment or debris accumulation – 2 inches, unless otherwise noted or accumulation prevents achievement of previous bullet	□ Less than 40% bare spots	□ Significant build up of sediment or debris – greater than 3 inches, unless otherwise noted
		□ No non-designed obstructions to flow	 □ Minimal non-designed obstructions to flow (over- grown vegetation, trash rack blockages) 	□ Moderate level of sediment or debris accumulation – 3 inches, unless otherwise noted or accumulation prevents achievement of previous bullet	□ Significant non-designed obstructions to flow (over- grown vegetation, trash rack blockage)
				□ Several non-designed obstructions to flow (over-grown vegetation, trash rack blockages)	
Other Structures	All			<u> </u>	
Weir walls, check dams, and log weirs			 □ Weir walls,check dams and log weirs are stable and secure 	 □ Minimal erosion and/or undercutting around weir walls, check dams and log weirs 	 □ Moderate erosion and/or undercutting around weir walls, check dams, and log weirs
Rockery, boulders, manufactured block sidewalls, soil- wrapped green walls			□ Acceptable level of sediment or debris accumulation behind weir walls, check dams or log weirs – 2 inches, unless otherwise noted	□ Moderate level of sediment or debris accumulation behind weir walls, check dams or log weirs – 3 inches, unless otherwise noted	□ Significant level of sediment or debris accumulation behind weir walls, check dams or log weirs – greater than 3 inches, unless otherwise noted

			□ Rockery, boulders, and walls are stable and secure □ No erosion or undercutting visible around rockery, boulders or walls	□ 10 % of the rocks or boulders are loose; 10 % of walls have areas of erosion or lack vegetation □ Minimal erosion or undercutting visible around rockery, boulders or walls	□ 30 % of the rocks or boulders are loose; 30 % of walls have areas of erosion or lack vegetation □ Moderate erosion or undercutting visible around rockery, boulders or walls
Safety, mobility, access	All	□ Vegetation causes no visibility (line	□ Vegetation causes minimal visibility (line of sight) or driver safety issues	□ Vegetation causes moderate visibility (line of sight) or driver safety issues	□ Vegetation causes significant visibility (line of sight) or driver safety issues
		□ of sight) or driver safety issues	□ Infrastructure access is 20% blocked	□ Infrastructure is 50% blocked	□ Infrastructure is not accessible
		□ Infrastructure is accessible	□ 80% of vegetation around infrastructure is maintained at height to prevent damage during routine maintenance	□ 60% of vegetation around infrastructure is maintained at height to prevent damage during routine maintenance	□ Vegetation around infrastructure is too tall and will be damaged during routine maintenance
		□ Vegetation around infrastructure is maintained at height to prevent damage during routine maintenance			
Long-term Ponding - if failing report to USM with in one week		□ Water drains within 24 hours (100% of swale)	,	□ Water drains within 24 hours for at least 90% of swale bottom	□ Water drains within 24 hours for at least 90% of swale bottom

^{*}Overall score will be lowest category of check box